

ABSTRACT OF THE DISCLOSURE

A device for determining the position of a tool and/or a load-bearing machine component of a machine tool or production machine includes a primary crossbeam arranged between two movable support elements and supporting the tool or the machine component, and a rigid secondary crossbeam which is also supported between the support elements. A contactless measuring unit is connected with the crossbeam and constructed to measure a deflection of the primary crossbeam relative to the secondary crossbeam. The deflection is hereby commensurate with a position of the tool and/or a load-bearing machine component and may depend on the acceleration force, weight and/or processing force exerted on the tool or the machine component.